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GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HAWAIIAN ISLANDS
State: _____

11-5613

DESCRIPTIVE REPORT.

~~Hydrographic~~ Sheet No. 4484

LOCALITY:
Oahu - South Shore Tripod Pt.
Ahua Pt. to Pearl R.

Including Approaches To Pearl
Harbor Entrance

1925

CHIEF OF PARTY:
E. R. Hand

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HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.
No. 8

Register No. 4484

State . . . Terr. of Hawaii
General locality . . . ~~South Shore Oahu~~ South Shore
Localities . . . ~~Ahua Pt. to Pearl River Tripod Pt. including Approaches to Pearl Harbor Entrance.~~
~~Marine Corps Rifle Range to Ahua P~~
Chief of party . . . Eoline R. Hand.
Surveyed by . . . " " "
Date of survey . . . March - July, 1925
Scale . . . 1 : 5000
Soundings in . . . feet
Plane of reference . . . MLLW

Protracted by Chas. S. Merek Soundings in pencil by Chas. S. #Merek
Inked by Verified by
Records accompanying sheet (check those forwarded):
Des. report, . . . Tide books, . . . Marigrams, . . . Boat sheets,
. . . Sounding books, . . . Wire-drag books, . . . Photographs.
Data from other sources affecting sheet

Remarks:

There are two tide books, which will be forwarded shortly. Tides were observed at the wharf, Fort Kamehameha, east side Pearl Harbor entrance. Executed in accordance with Department letter of Jan 28, 1924 (Engr 600.93) and Dec. 8, 1924. The latter instructs that nothing was desired north of the Pearl Harbor Entrance.

ERH.

#Chief Draftsman, Office Department Engineer, Fort Shafter.

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DESCRIPTIVE REPORT

To accompany hydrographic sheet No. 1, Marine Corps Rifle Range to Ahna Point.
Eoline R. Hand, Chief of Party.

It is obvious that Pearl Harbor Entrance offers excellent landing possibilities. On the west side of this channel it breaks badly with any swell and further west, at a point true south from Tripod Point, the well defined part of the reef begins (mentioned for sheet 7) and trends west, and where it is always breaking; so the most favorable place for landing west of Pearl Harbor Entrance would appear to be through that deeper water that is midway between the harbor entrance and the abovementioned reef, then standing in toward Tripod Point on a true bearing of N10W, but instead of trying to land in the rocks off this point work either into the Harbor entrance on the east or get in behind the breakers of the reef spoken of above, and land on a fine sand beach in the cove at Pt. Weaver. But this whole area west from the entrance is shoal, and consequently treacherous: breaking on a well defined reef can be avoided, and even be used to advantage by getting in the lee of them, but here the breakers are liable to come up anywhere, unless there is no swell. Instead of attempting landing here the writer would prefer to come inside the west end of the reef I spoke of above, described on sheet 7, and then proceed east to the Fort Weaver Landing, or around Tripod Point into the Harbor.

The bottom west of the Harbor and to end of sheet is surprisingly regular, whereas on the east side of harbor entrance the bottom becomes at once most irregular, with deep holes, and coral heads. Here is a barrier reef trending east, and no deep water behind; it practically bares. The reef line is most irregular, but no practicable entrances were found: the entire area is a mass of sunken and of awash rocks; and this condition obtains east to end of sheet, and beyond. Excepting shallow pools here and there the area from reef edge to shore is bare at low tide.

Eoline R. Hand

Eoline R. Hand.

This survey executed in accordance with the Instructions set forth in Headquarters communication of Jan. 28, 1924 (Engr. 600.93) a copy of which is in the confidential files of this Office. The six foot depth curves are not shown since it would confuse the tracings in the Engineer's office, where they indicate the five foot curves instead.

ERH.

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LIST OF STATISTICS SHEET NO. 8

To accompany hydrographic sheet N 8 South shore of Oahu Marine Corps rifle range to Ahua Point.)

Eoline R. Hand,
Chief of Party.

Date 1925	Letter	Volume	Positions	Soundings	Miles Statute	Vessel
March 18.....	a	1	49	283	4.0	Whaleboat
" 1.....	a	1	73	282	12.5	Launch
" 13.....	b	1	39	163	6.75	"
" 14.....	b	1	99	727	11.0	Whaleboat
July 1.....	c	1	8	38	.5	Launch
" 2.....	d	1	12	63	1.5	"
" 7.....	c	1	37	234	2.1	Whaleboat
" 8.....	e	1	11	40	1.6	Launch
" 9.....	f	1	13	58	1.8	"
" 10.....	g	1	44	138	4.6	"
" 13.....	h	1	63	228	8.6	"
" 14.....	d	1	62	369	5.8	Whaleboat
" 16.....	e	1	78	475	6.0	"
" 17.....	f	2	13	69	1.0	"
" 21.....	g	2	3	20	.1	"
" 23.....	h	2	41	196	4.1	Whaleboat
Total.....			647	3383	71.95	

December 31, 1925.

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4484

Locality: South Shore of Oahu, T. H.

Chief of Party: E. R. Hand in 1925.

Plane of reference is
0.65 ft. on tide staff at Fort Kamehameha.

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

February 9, 1926.

SECTION OF FIELD RECORDS

Report on Verification of Hydrographic Sheet No. 4484

Oahu, Hawaii.

Ahua Pt. to Tripod Pt., including approaches to Pearl Harbor Entrance

Date: March 18 to July 23, 1925

Chief of Party, Eoline R. Hand.

Scale, 1:5,000.

The records and notes including the sounding records were complete and well kept.

The protracting was very good and the smooth sheet kept clean.

In plotting the soundings the time intervals were carefully adhered to.

The shoals are sufficiently well developed.

The drafting conforms to the general instructions for field work.

John C. MacPhee
Cartographic Draftsman.

803.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DFM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON March 17, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4484

Oahu Island -- Hawaiian Islands

Surveyed in 1925

Instructions furnished by U. S. Army

Chief of Party, E. R. Hand.

Surveyed by E. R. H.

Protracted and soundings plotted by C. S. Merek

Verified and inked by J. C. MacNab.

1. The records conform to the requirements of the General Instructions except that the customary stamps at beginning and ending of days were not used.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The sounding line crossings are adequate considering the uneven character of the bottom.
4. The information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party and was found to be excellent.
6. The junction with H. 4483 on the west is satisfactory.

A rough comparison with the older survey H. 3294 shows a fairly good agreement. It is recommended that the shoal soundings of the old survey be retained wherever the new survey shows deeper depths.

7. The survey discloses numerous holes and coral heads, particularly in the area east of Pearl Harbor Entrance. No further lead line surveying is necessary, but if practicable the area should be wire-dragged.
8. The character and scope of the survey ~~is excellent.~~ *are good.*
The field drafting is excellent.
9. Reviewed by A. L. Shalowitz, March, 1926.

Approved [Signature] A.L.S.